BEFORE REACTION

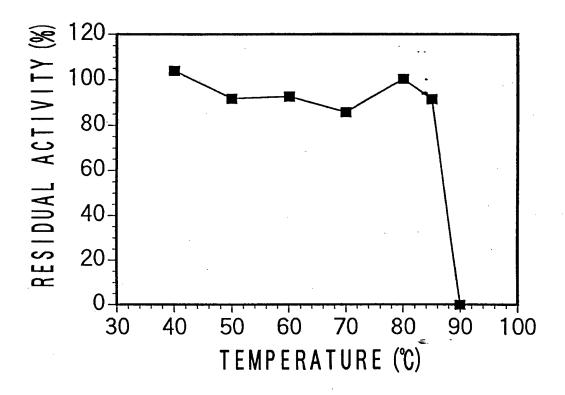


FIG. 2

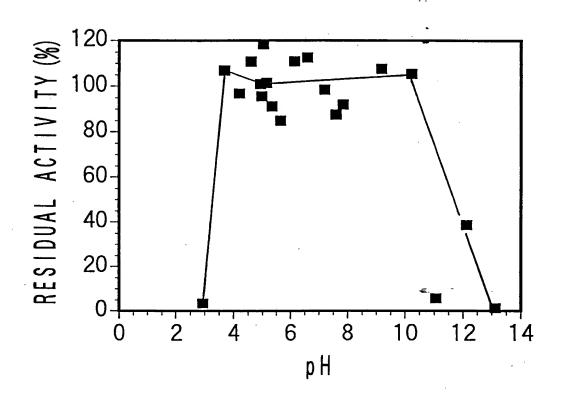


FIG. 3

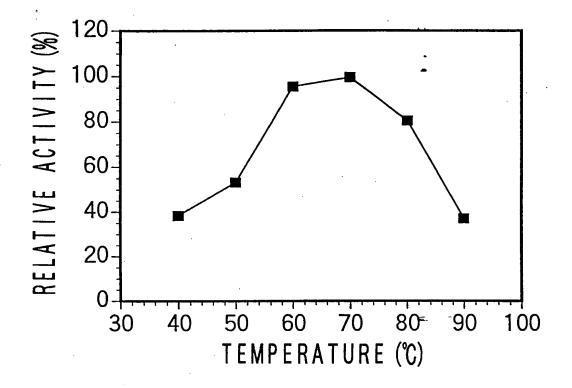


FIG. 4

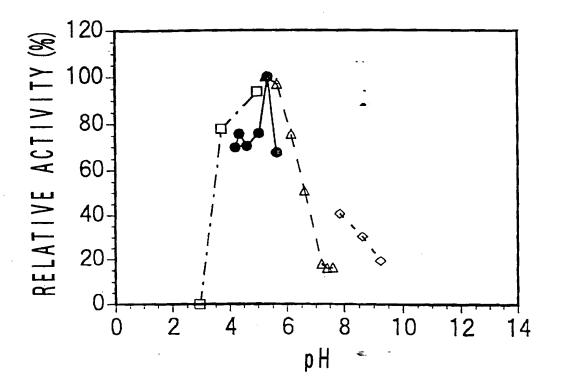


FIG. 5

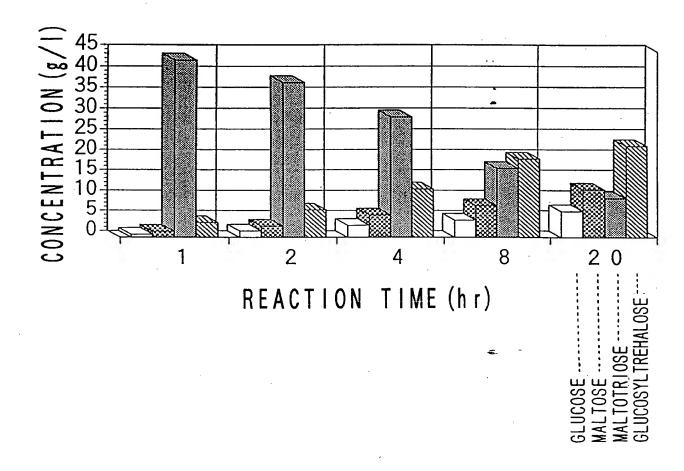
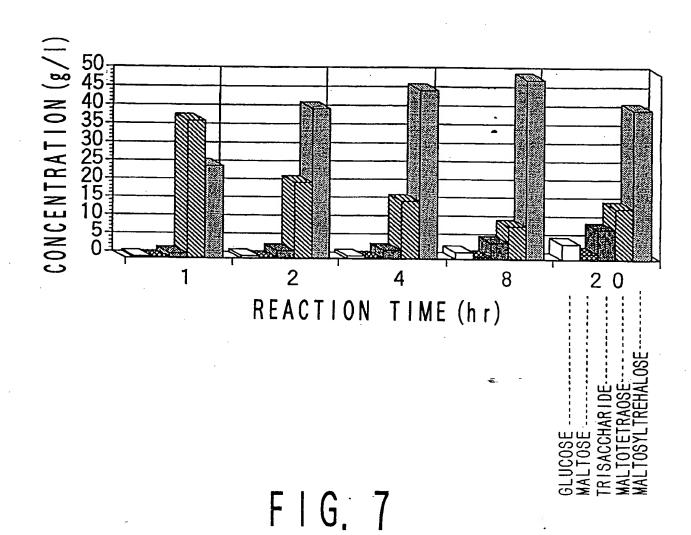
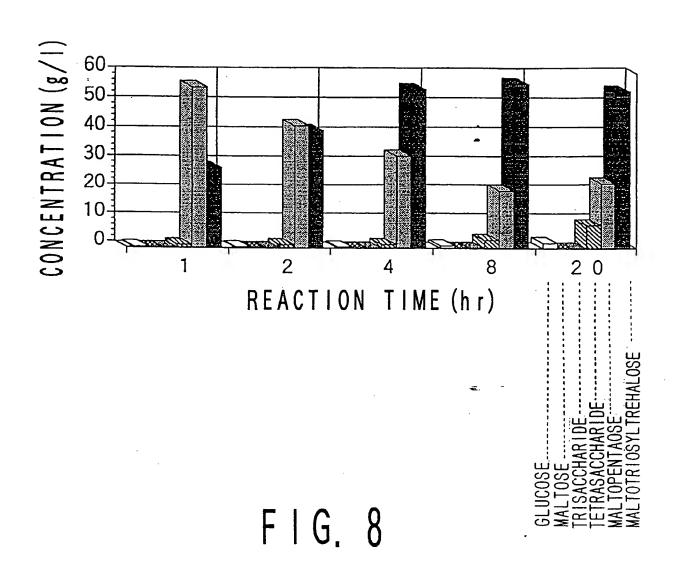


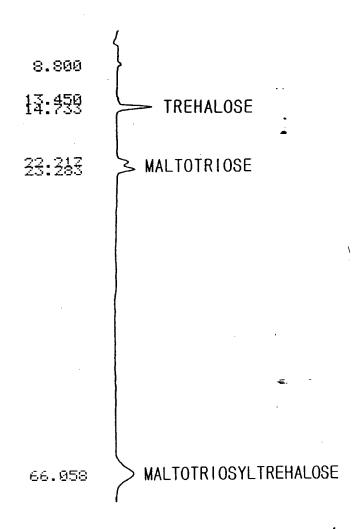
FIG. 6



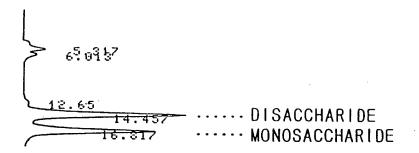


16.48 MONOSACCHARIDE

·· 14.51 DISACCHARIDE



F I G. 10



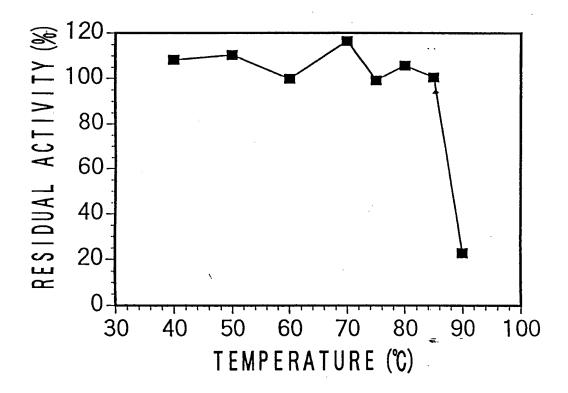


FIG. 12

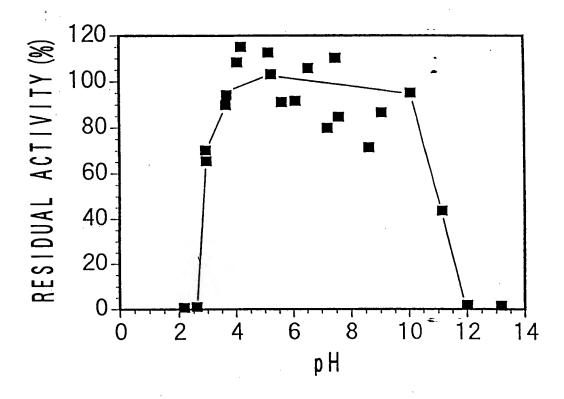


FIG. 13

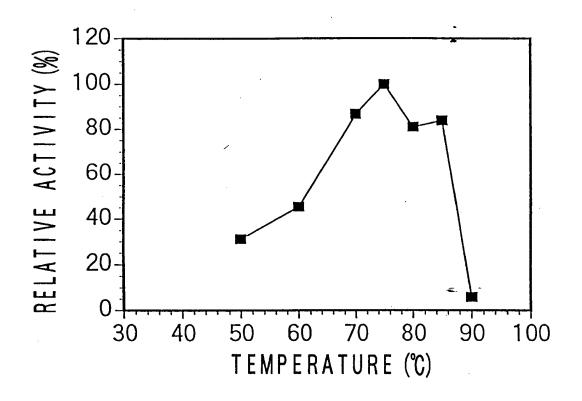


FIG. 14

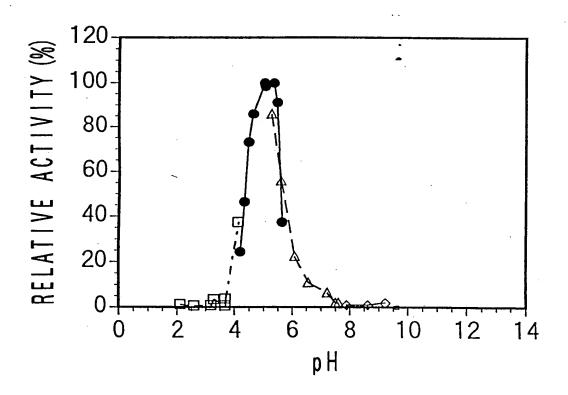
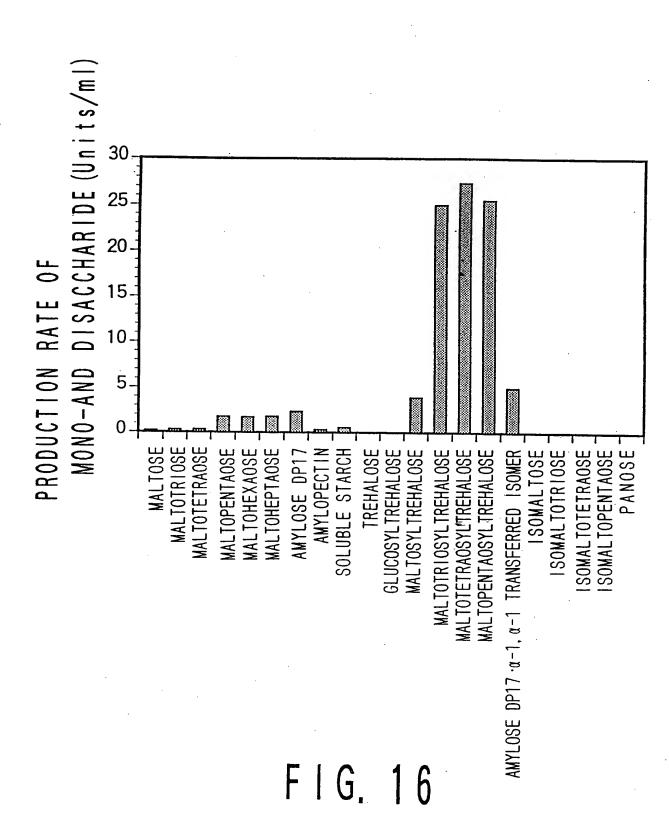


FIG. 15



SUBSTRATE: MALTOPENTAOSE

FIG. 17A

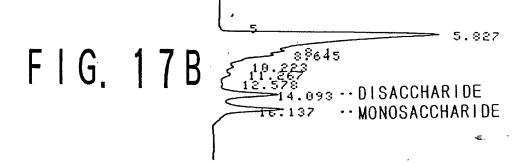
PENTASACCHARIDE

13.99 DISACCHARIDE

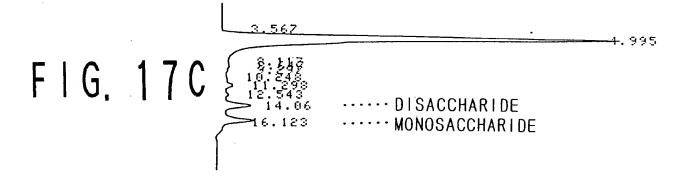
13.99 DISACCHARIDE

MONOSACCHARIDE

SUBSTRATE: AMYLOSE DP17



SUBSTRATE: SOLUBLE STARCH



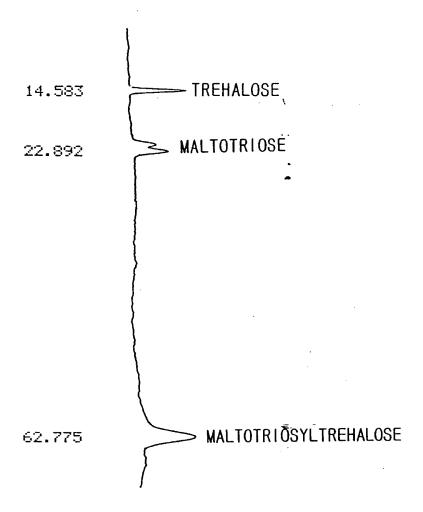


FIG. 18



14.603 TREHALOSE

59.683 62.325 MALTOPENTAOSE

MALTOPENTAOSYLTREHALOSE

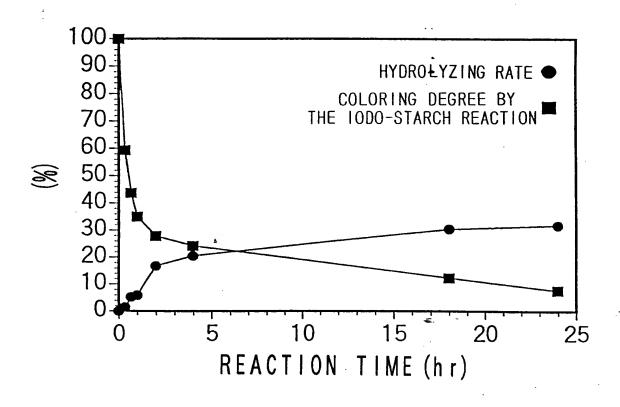


FIG. 20

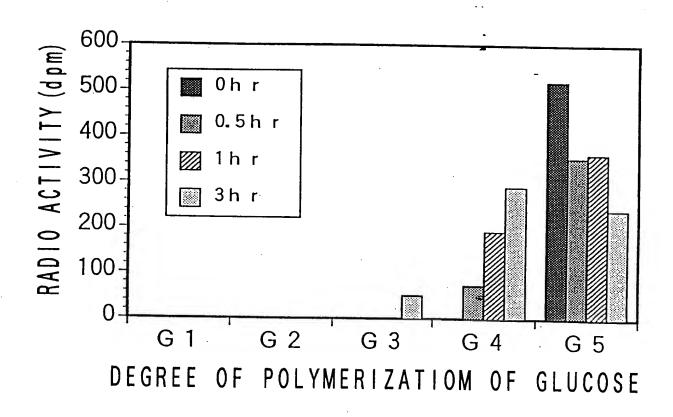


FIG. 21

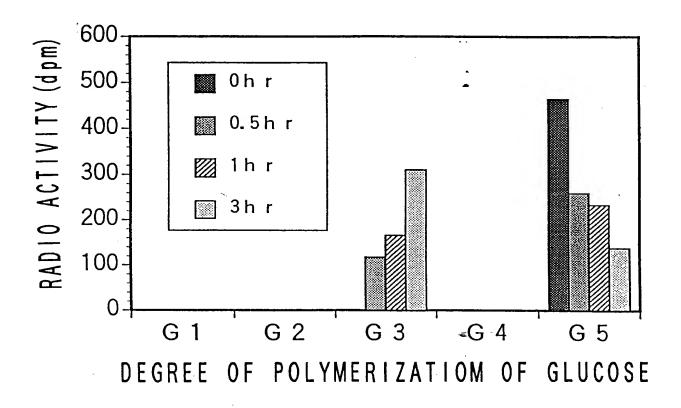


FIG. 22

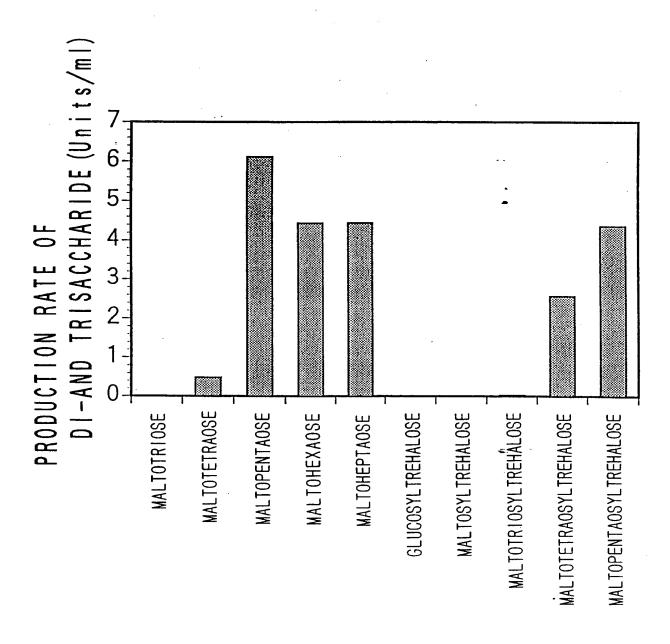


FIG. 23

13,962

MALTOSE

20:797

MALTOTRIOSE

33.992° 36.025

MALTOSYLTREHALOSE

135.975

MALTOPENTAOSYLTREHALOSE

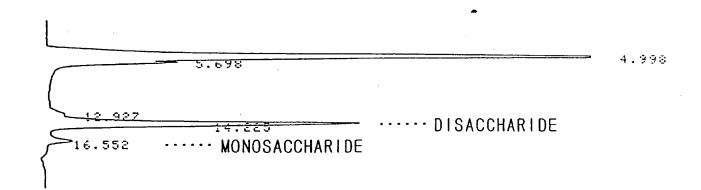
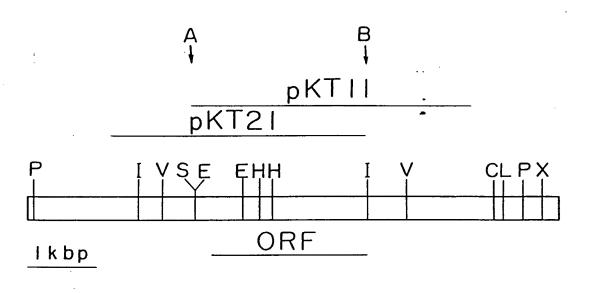


FIG. 25



E: EcoR I
P: Pst I H: Hinc II
I: EcoT 22 I C: Sac I
V: EcoRV L: Sal I
S: Sph I X: Xba I

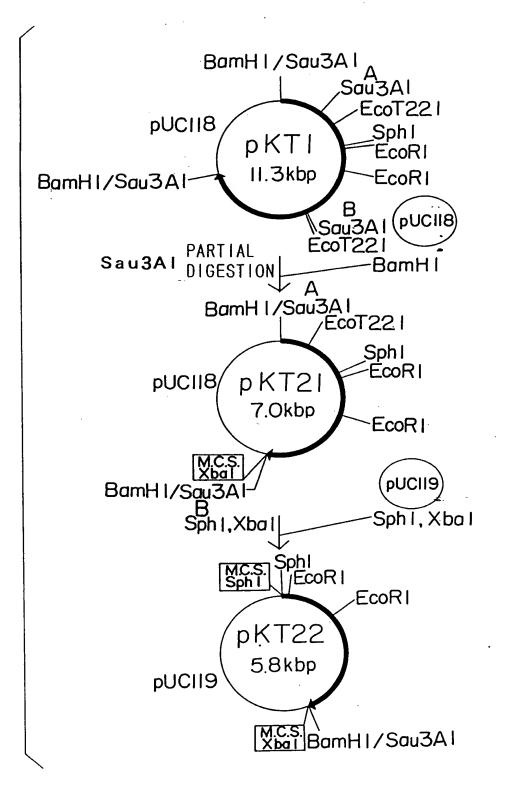


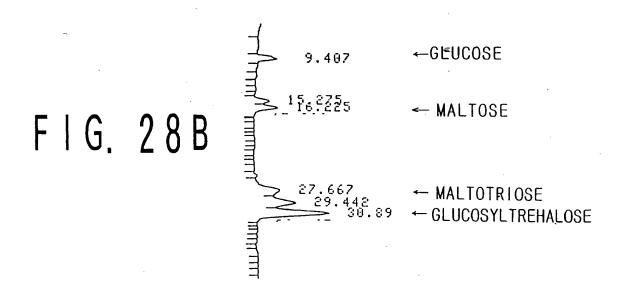
FIG. 27

BEFORE ADDITION OF CRUDE ENZYME EXTRACT

FIG. 28A

27.767
£9.583 ←MALTOTRIOSE

AFTER ADDITION OF CRUDE ENZYME EXTRACT



p09T1 INSERTED FRAGMENT

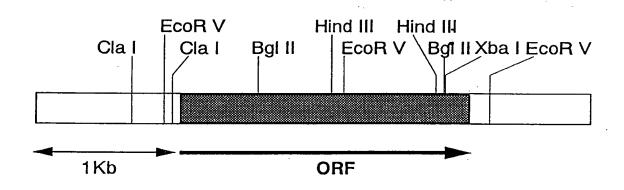
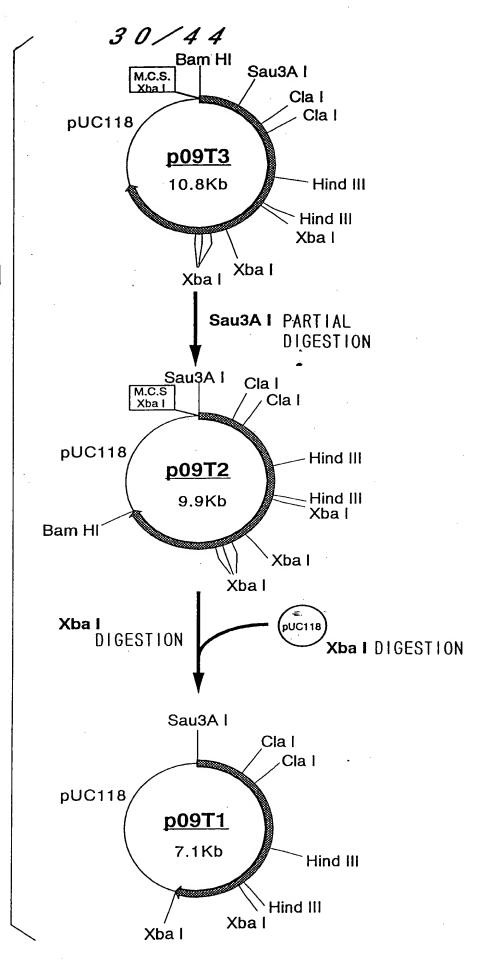


FIG. 30



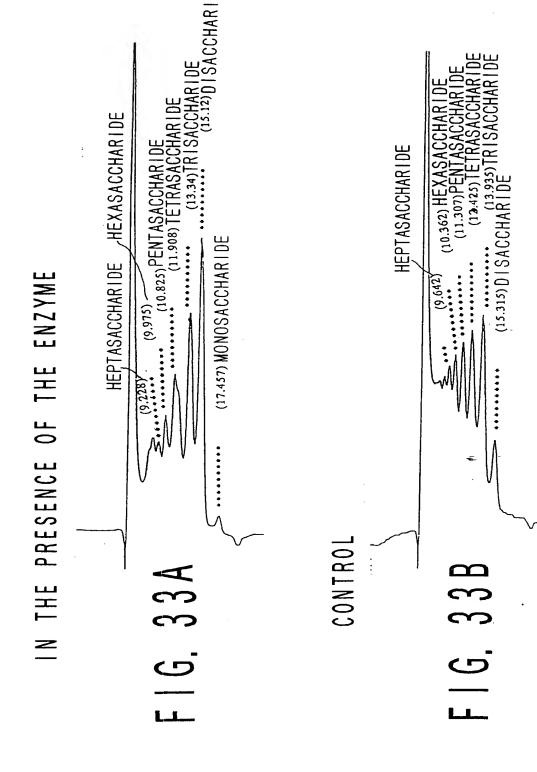
1'	MASPGSNHGYDVIDHSRIND
1"	MIIGTYRLQLNKKFTFYDIIENLDYFKELGVSHLYLSPILKARPGSTHGYDVVDHSEINE
21'	ELGGEKEYRRLIETAHTIGLGIIQDIVPNHMAVNSLNWRLMDVLKMGKKSKYYTYFDFFP
61"	ELGGEEGCFKLVKEAKSRGLEIIQDIVPNHMAVHHTNWRLMDLLKSWKNSKYYNYFDHY-
81'	EDDKIRLPILGEDLDTVISKGLLKIVKDGDEYFLEYFKWKLPLTEVG
120"	DDDKIILPILEDELDTVIDKGLIKLQKDNIEYRGLILPINDEGVEFLKRINCFDNSCLKK
128'	NDIYDTLQKQNYTLMSWKNP-PSYRRFFDVNTLIGVNVEKDHVFQESHSKILDLDVDGYR
180"	EDIKKLLLIQYYQLTYWKKGYPNYRRFAVNDLIAVRVELDEVFRESHEIIAKLPVDGLR
187'	IDHIDGLYDPEKYINDLRSII-KNKIIIVEKILGFQEELKLNSDGTTGYDFLNYSNLL
240"	IDHIDGLYNPKEYLDKLRQLVGNDKIIYVEKILSINEKLRDDWKVDGTTGYDFLNYVNML
244'	FNFNQEIMDSIYENFTAEKISISESIKKIKAQIIDELFSYEVKRLASQLGISYDILRD
300"	LVDGSGEEELTKFYENFIGRKINIDELIIQSKKLVANQLFKGDIERLSKLLNVNYDYLVD
302'	YLSCIDVYRTYÄNQIVKECDKTNEIEEATK-RNPEAYTKLQQYMPAVYAKAYEDTFLFRY
360"	FLACMKKYRTYLPYEDINGIRECDKEGKLKDEKGIMRLQQYMPAIFAKGYEDTTLFIY
361'	NRLISINEVGSDLRYYKISPDQFHVFNQKRRGKITLNATSTHDTKFSEDVRMKISVLSEF
418"	NRLISLNEVGSDLRRFSLSIKDFHNFNLSRVNTISMNTLSTHDTKFSEDVRARISVLSEI
421'	
478"	PKEWEERVIYWHDLLRPNIDKNDEYRFYQTLVGS-YEGFDNKERIKNHMIKVIREAKV
481'	NTSWRNQNKEYENRVMELVEETFTNKDFIKSFMKFESKIRRIGMIKSLSLVALKIMSAGI
535"	HTTWENPNIEYEKKVLGFIDEVFENSNFRNDFENFEKKIVYFGYMKSLIATTLRFLSPGV
541'	PDFYQGTEIWRYLLTDPDNRVPVDFKKLHEILEKSKKFEKNMLESMDDGRIKMYLTYKLL
595"	PDIYQGTEVWRFLLTDPDNRMPVDFKKLKELLNNLTEKNLE-LSDPRVKMLYVKKLL
501'	SLRKQLAEDFLKGEYKGLDLEEGLCGFIRFNKILVIIKTKGSVNYKLKLEEGAIYTDVLT
651"	QLRREYSLNDYKPLPFGFQR-GKVAVLFSPIVTREVKEKISIRQKSVDWIR
661'	GEEIKK-EVQINELPRILVRM .*** ***
701"	NEETSGEYNI SEI TGKHKVVTI TEKRE

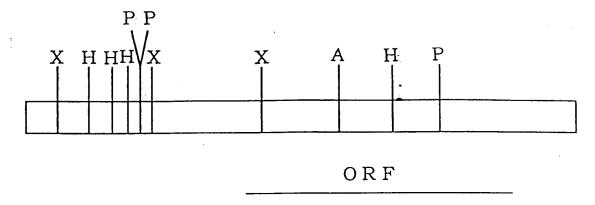
816'	ATGGCTTCGCCAGGAAGTA-ACCATGGGTACGATGTAA
455"	AAGGCTAGACCAGGGAGCACTCACGGCTACGATGTAGTAGATCAT-AGTGAAATTAAT
853'	TAGATCATTCAAGGATAAACGATGAAC-TTGGAGGAGAGAAAGAATACAGGAGATTA
512"	GAGGAATTAGGAGGAGAAGAGGGGTGCTTTAAACTAGTTAAGGAAGCTAAGAGTAGAGGT
909'	ATAGAGACAGCTCATACTATTGGATTAGGTATTAT-ACAGGACATAGTACCAAAT-CACA
572"	TTAGAAATCATACAAGATATAGTGCCAAATCACATGGCGGTACATCATACTAATTGGAGA
967'	TGGCTGTAAATTCTCTA-AATTGG-CGACTAATGGATGTATTAAAAATGGGTAAAAAGAG
632"	CTTATGGATCTGTTAAAGAGTTGGAAGAATAGTAAATACTATAACTATT-TTGATCACTA
1025'	TAAATATTATACGTACTTTGACTTTTTCCCAGAAGATGA-TAAGATACGATTACCCATAT
691"	CGATGATGACAAGATAATCCTCCCAATACTTGAGGACGAGTTGGATACCGTTATAGAT
1084'	TAGGAGAAGATTTAGATACAGTGATAAGTAAAGGTTTATTAAAGATAGTAAAAGATGG
749"	AAGGGATTGATAAAACTACAGAAGGATAATATAGAGTACAG-AGGGCTTATATTACCTAT
1142'	AGATGAATATTTCCTAGAATATTTCAAATGGAAACTTCCTCTAACAGAGGTTGGAA
808"	${\tt AAATGATGAAGGAGTTGAATTCTTGAAAAGGATTAATTGCTTTGATAATTCATGTTTAAA}$
1198'	ATGATATACGACACTTTACAAAAACAGAATTATACCCTAATGTCTTGGAA
868"	GAAAGAGGATATAAAGAAATTACTATTAATACAATATTATCAGCTAACTTACTGGAAGAA
1250'	AAATCCTCCTAGCTATAGACGATTCTTCGATGTTAATACTTTAATAGGAGTAAATGTCGA
928"	AGGTTATCCAAACTATAGGAGATTTTTCGCAGTAAATGATTTGATAGCTGTTAGGGTAGA
1310'	AAAAGATCACGTATTTCAAGAGTCCCATTCAAAGATCTTAGATTTTAGATGTTGATGGCTA
988"	ATTGGATGAAGTATTTAGAGAGTCCCATGAGATAATTGCTAAGCTACCAGTTGACGGTTT
1370'	TAGAATTGATCATATTGATGGATTATATGATCCTGAGAAATATATTAATGACCTGA-G
1048"	AAGAATTGACCACATAGATGGACTATATAACCCTAAGGAGTATTTAGATAAGCTAAGACA
1427'	GTCAATAATTAAAAATAAATTATTGTAGAAAAAATTCTGGGATTTCAGGAGGAATT
1108"	GTTAGTAGGAAATGATAAGATAATATACGTAGAAGATATTGTCAATCAA
1487'	AAAATTAAATTCAGATGGAACTACAGGATATGACTTCTTAAATTACTCCAACTT
1168"	AAGAGATGATTGGAAAGTAGATGGGACTACTGGATATGATTTCTTGAACTACGTTAATAT
1541'	ACTGTTTA-ATTTTAATCAAGA-GA-TAATGGAC-AGTATATATGAGAATTTCACAGC
1228"	GCTATTAGTAGATGGAAGTGGAGGAGGAGTTAACTAAGTTTTATGAGAATTTCATTGG
1595'	GGAGAAAATATCTATAAGTGAAAGTATAAAGGAAAATAAAGCGCAAATAATTGATGAGCT
L288"	AAGGAAAATCAATATAGACGAGTTAATAATACAAAGTAAAAAATTAGTTGCAAATCAGTT
L655'	ATTTAGTTATGAAGTTAAAAGATTAGCATCACAACTAGGAATTAGCTACGATATATTGAG
L348"	ATTTAAAGGTGACATTGAAAGATTAAGCAAGTTACTGAACGTTAATTACGAT-TATTTAG
1715'	-AGATTACCTTTCTTGTATAGATGTGTACAGAACTTATGCTAATCAGAT-TGTAAAAGAG
L407"	TAGATTTTCTAGCATGTATGAAAAAATACAGGACTTATTTACCATATGAGGATATTAA

F I G. 32A

33/44 1773' TGTGATAAGACCAATGAGATAGAGGAAGCAACCAAAAGAAATCCAGAGGCTTATACTAAA 1465" CGGAATAAG-GGAATGCGATA-AGGAGGGAAAGTTAAAAGATGAAAAGGGAATCATGAGA 1833' TTACAACAATATATGCCAGCAGTATACGCTAAAGCTTATGAAGATACTTTCCTCTTTAGA 1523" CTCCAACAATACATGCCAGCAATCTTCGCTAAGGGCTATGAGGATACTACCCTCTTCATC 1893' TACAATAGATTAATATCCATAAATGAGGTTGGAAGCGATTTACGATATTATAAGATATCG 1583" TACAATAGATTAATTTCCCTTAACGAGGTTGGGAGCGACCTAAGA-AGATTCAGTTTAAG 1953' CCT-GATCAGTTTCATGTATTTAATCAAAAACGAAGAGGAAAAATCACACTAAATGCCAC 1642" CATCAAAGACTTTCATAACTTTAACCTAAGCAGAGTAAATACCATATCAATGAACACTCT 2012' TAGCACACATGATACTAAGTTTAGTGAAGATGTAAGGATGAAAATAAGTGTATTAAGTGA 1702" TTCCACTCATGATACTAAATTCAGTGAAGACGTTAGAGCTAGAATATCAGTACTATCTGA 2072' ATTTCCTGAAGAATGGAAAAATAAGGTCGAGGAATGGCATAGTATCATAAATCCAAAGGT 1762" GATACCAAAGGAGTGGGAGGAGAGGGTAATATACTGGCATGATTTGTTAAGGCCAAATAT 2132' ATCAAGAAATGATGAATATAGATATTATCAGGTTTTAGTGGGAAGTTTTTATGAGGGATT 1822" TGATAAAAACGATGAGTATAGATTTTATCAAACACTTGTGGGAAG---TTACGAGGGATT 2192' CTCTAATGATTTTAAGGAGAGAATAAAGCAACATATGATAAAAAGTGTCAGAGAAGCTAA 1879" ----T--GATAATAAGGAGAGAATTAAGAACCACATGATTAAGGTCATAAGAGAAGCTAA 2252' GATAAATACCTCATGGAGAAATCAAAATAAAGAATATGAAAATAGAGTAATGGAATTAGT 1933" GGTACATACAACGTGGGAAAATCCTAATATAGAGTATGAAAAGAAGGTTCTGGGTTTCAT 2312' GGAAGAAACTTTTACCAATAAGGATTTCATTAAAAGTTTCATGAAATTTGAAAGTAAGAT 1993" AGATGAAGTGTTCGAGAACAGTAATTTTAGAAATGATTTTGAAAAATTTTGAAAAGAAAAT 2372' AAGAAGGATAGGGATGATTAAGAGCTTATCCTTGGTCGCATTAAAAATTATGTCAGCCGG 2053" AGTITATITCGGTTATATGAAATCATTAATCGCAACGACACTTAGGTTCCTTTCGCCCGG 2492' CAGAGTCCCAGTGGATTTTAAGAAATTACACGAAATATTAGAAAAATCCAAAAAATTTGA 2173" CAGAATGCCGGTGGATTTCAAGAAACTAAAGGAATTATTAAATAATTTGACTGAAAAGAA 2552' AAAAAATATGTTAGAGTCTATGGAC--GATGGAAGA-ATTAAGATGTATTTAACATATAA 2233" CTTAGAACTCTCAGATCCAAGAGTCAAAATGTTATATGTTAAGAAAT-TGCTACAGCTTA 2609' GCTTTTATCCCTAAGAAAACAGTTGGCTGAGGATTTTTTAAAGGGCGAGTATAAGGG---2292" GAAGAGAGTACTCACTAAACGATT--ATAAACCATTGCCCTTTGGCTTCCAAAGGGGAAÁ 2656' ATTAGATCTAGAAGAAGGACTATGTGGGTTTA-TTAGGTTTAACAAAATTTTGGTAATAA 2350" AGTAGCTGTCCTTTTCTCACCAATAGTGACTAGGGAGGTTAAAGAGAAAATTAGT-ATAA 2725' TAAAAACCAAGGGAAGTGTTAATTACAAACTGAAACTTGAAGAGGGAGCAATTTACACAG 2409" GGCAAA-AAAGCGTTGATTGGATCAGAAATGAGGAAATTAGTAGTGGAGAAT----ACAA 2785' ATGTATTGACAGGAGAAGAAATTAAAAAAGAGGTACAGATTAATGAGCTACCTAGGATAC Z464" TTTAAGTGAGTTGATTGGGAAGCATAAAGTCGTTATA-TTAACTGAAAAAAGGGAG

F | G. 32B





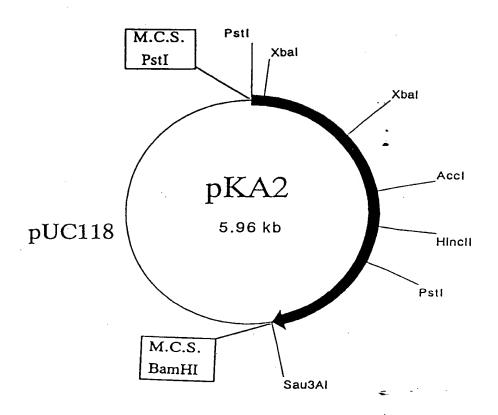
1 kbp

p K A 2

A : A c c I

H: Hinc I I

P:PstI X:XbaI



F1G. 35

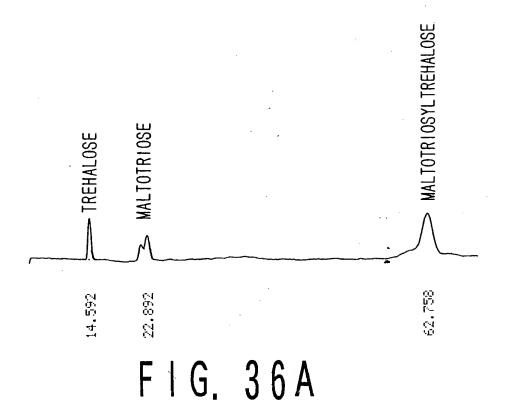




FIG. 36B

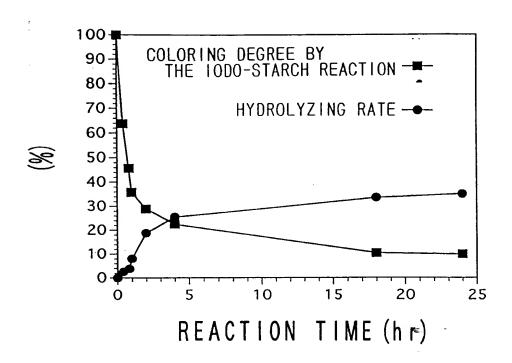
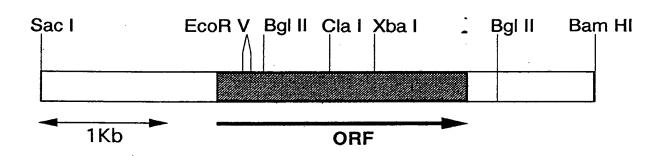
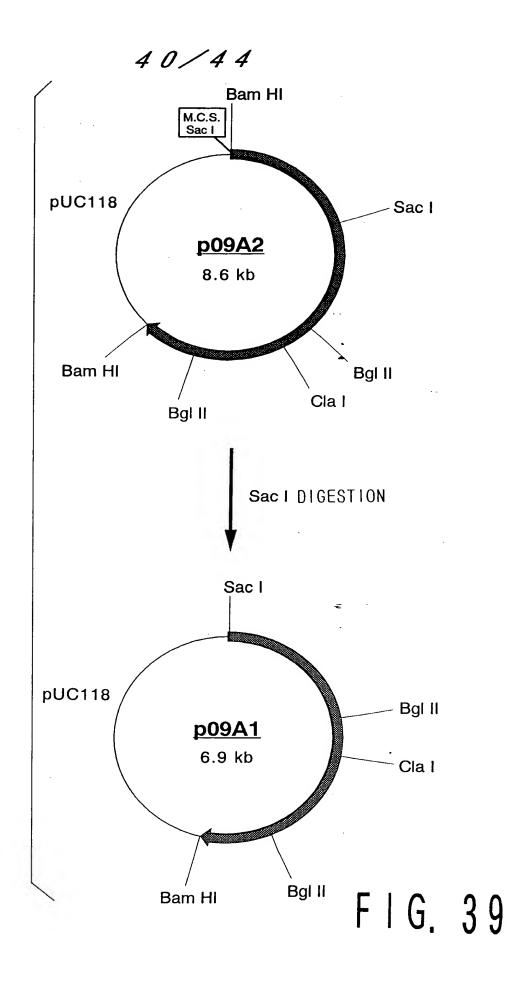


FIG. 37

p09A1 INSERTED FRAGMENT





1'	MFSFGGNIEKNKGIFKLWAPYVNSVKLK-LSKKLIPMEKNDEGFFEVEIDDIEENLTYSY
1"	TFAYKIDGNEVIFTLWAPYQKSVKLKVLEKGLYEMERDEKGYFTITLNNVKVRDRYKY
60'	<pre>IIEDKREIPDPASRYQPLGVHDKSQLIRTDYQILDLGKVKIEDLIIYELHVGTFSQEGNF* .********************************</pre>
59"	VLDDASEIPDPASRYQPEGVHGPSQIIQESKEFNNETFLKKEDLIIYEIHVGTFTPEGTF
120'	KGVIEKLDYLKDLGITGIELMPVAQFPGNRDWGYDGVFLYAVQNTYGGPWELAKLVNEAH
119"	EGVIRKLDYLKDLGITAIEIMPIAQFPGKRDWGYDGVYLYAVQNSYGGPEGFRKLVDEAH
180'	KRGIAVILDVVYNHIGPEGNYLLGLGPYFSDRYKTPWGLTFNFDDRGCDQVRKFILENVE
179"	
240'	YWFKTFKIDGLRLDAVHAIFDNSPKHILQEIAEKAHQLGKFVIAESDLNDPKIVKDDC
239"	
298'	GYKIDAQWVDDFHHAVHAFITKEKDYYYQDFGRIEDIEKTFKDVFVYDGKYSRYRGRTHG
299"	${\tt GYNIDAQWVDDFHHSIHAYLTGERQGYYTDFGNLDDIVKSYKDVFVYDGKYSNFRRKTHG}$
358'	APVGDLPPRKFVVFIQNHDQVGNRGNGERLSILTDKTTYLMAATLYILSPYIPLIFMGEE
359"	EPVGELDGCNFVVYIQNHDQVGNRGKGERIIKLVDRESYKIAAALYLLSPYIPMIFMGEE
418'	YYETNPFFFFSDFSDPVLIKGVREGRLKENNQMIDPQSEEAFLKSKLSWKIDEEVLDYYK * *.***.******************************
419"	${\tt YGEENPFYFFSDFSDSKLIQGVREGRKKENGQDTDPQDESTFNASKLSWKIDEEIFSFYK}$
478'	QLINIRKRYN-NCKRVKEVRREGNCITLIMEKIGIIASFDDIVINSKITGNLLIGIGF **** *. *
479"	
535'	PKKLKKDELIKVNRGVGVYQLE ***.*
539"	POHT EEGK - YEED KGEAL YKI

1176'	ATGTTTTCGTTCGGTGGAAATATTGAAAAAAAAAAGGTATCTTTAAGTTATGGGCACCT
642"	ACGTTTGCTTATAAAATAGATGGAAATGAGGTAATCTTTACCTTATGGGCACCT
1236'	TATGTTAATAGTGTTAAGCTGAA-GTTAAGCAAAAAACTTATTCCAATGGAAAAAAAC
696"	TATCAAAAGAGCGTTAAACTAAAGGTTCTAGAGAAGGGACTTTACGAAAATGGAAAGAGAT
1293'	GATGAGGGATTTTTCGAAGTAGAAATAGACGATATCGAGGAAAATTTAACCTATTCTTAT
756"	${\bf GAAAAAGGTTACTTCACCATTACCTTAAACAACGTAAAGGTTAGAGATAGGTATAAATAC}$
1353'	${\tt ATTATAGAAGATAAGAGAGAGATACCTGATCCCGCATCACGATATCAACCTTTAGGAGTT}$
816"	${\tt GTTTTAGATGATGCTAGTGAAATACCAGATCCAGCATCCAGATACCAACCA$
1413'	${\tt CATGACAAATCACAACTTATAAGAACAGATTATCAGATTCTTGACCTTGGAAAAGTAAAA}$
876"	${\bf CATGGGCCTTCACAAATTATACAAGAAAGTAAAGAGTTCAACAACGAGACTTTTCTGAAG\\$
1473'	ATAGAAGATCTAATAATATGAACTCCACGTTGGTACTTTTTCCCAAGAAGGAAATTTC
936"	${\tt AAAGAGGACTTGATAATTTATGAAATACACGTGGGGACTTTCACTCCAG\underline{A}\underline{G}\underline{G}\underline{G}\underline{A}\underline{C}\underline{G}\underline{T}\underline{T}}$
1533'	AAAGGAGTAATAGAAAAGTTAGATTACCTCAAGGATCTAGGAATCACAGGAATTGAACTG
996"	${\bf GAGGGAGTGATAAGGAAACTTGACTACTTAAAGGATTTGGGAATTACGGCAATAGAGATA}$
1593 /	ATGCCTGTGGCACAATTTCCAGGGAATAGAGATTGGGGATACGATGGTGTTTTTCTATAC
1056"	${\tt ATGCCAATAGCTCAATTTCCTGGGAAAAGGGATTGGGGGTTATGATGGAGTTTATTTA$
1653'	GCAGTTCAAAATACTTATGGCGGACCATGGGAATTGGCTAAGCTAGAACGAGGCACAT
1116"	${\tt GCAGTACAGAACTCTTACGGAGGGCCAGAAGGTTTAGAAAGTTAGTT$
1713'	AAAAGGGGAATAGCCGTAATTTTGGATGTTGTATATAATCATATAGGTCCTGAGGGAAAT
1176"	AAGAAAGGTTTAGGAGTTATTTTAGACGTAGTATACAACCACGTTGGACCAGAGGGAAAC
1773'	TACCTTTTAGGATTAGGTCCTTATTTTTCAGACAGATATAAAACTCCATGGGGATTAACA
1236"	TATATGGTTAAATTGGGGCCATATTTCTCACAGAAATACAAAACGCCATGGGGATTAACC
1833'	TTTAATTTTGATGATAGGGGATGTGATCAAGTTAGAAAATTCATTTTAGAAAATGTCGAG
1296"	TTTAACTTTGACGATGCTGAAAGCGATGAGGTTAGGAAGTTCATCTTAGAAAACGTTGAG
1893'	TATTGGTTTAAGACCTTTAAAATCGATGGTCTGAGACTGGATGCAGTTCATGCAATTTTT
1356"	TACTGGATTAAGGAATATAACGTTGATGGGTTTAGATTAGATGCGGTTCATGCAATTATT
1953'	GATAATTCGCCTAAGCATATCCTCCAAGAGATAGCTGAAAAAGCCCATCAATTAGGAAAA
1416"	GACACTTCTCCTAAGCACATCTTGGAGGAAATAGCTGACGTTGTGCATAAGTATAATAGG
2013'	TTTGTTATTGCTGAAAGTGATTTAAATGATCCAAAAATAG-TAAAAGATGATTGT
1476"	ATTGTCATAGCCGAAAGTGATTTAAACGATCCTAGAGTCGTTAATCCCAAGGAAAAGTGT
2067'	GGATATAAAATAGATGCTCAATGGGTTGACGATTTCCACCACGCAGTTCATGCATTCATA
1536"	GGATATAATATTGATGCTCAATGGGTTGACGATTTCCATCATTCTATTCACGCTTACTTA
2127'	ACAAAAGAAAAAGATTATTACCAGGATTTTGGAAGGATAGAAGATATAGAGAAAACT
	ACTCCTCACACACACCCTATTATACCCATTTCCCTAACCTTCACCATATACTTAAATCC

F I G. 41A

2187'	TITAAAGATGTTTTTGTTTATGATGGAAAGTATTCTAGATACAGAGGAAGAACTCATGGT
1656"	TATAAGGACGTTTTCGTATATGATGGTAAGTACTCCAATTTTAGAAGAAAAACTCACGGA
2247'	GCTCCTGTAGGTGATCTTCCACCACGTAAATTTGTAGTCTTCATACAAAATCACGATCAA
1716"	GAACCAGTTGGTGAACTAGACGGATGCAATTTCGTAGTTTATATACAAAATCACGATCAA
2307'	GTAGGAAATAGAGGAAATGGGGAAAGACTTTCCATATTAACCGATAAAACGACATACCTT
1776"	GTCGGAAATAGAGGCAAAGGTGAAAGAATAATTAAATTA
2367'	ATGGCAGCCACACTATATATACTCTCACCGTATATACCGCTAATATTTATGGGCGAGGAA
1836"	ATCGCTGCAGCCCTTTACCTTCTTTCCCCCTATATTCCAATGATTTTCATGGGAGAGGAA
2427'	TATTATGAGACGAATCCTTTTTTCTTCTTCTTCTGATTTCTCAGATCCCGTATTAATTA
1896"	TACGGTGAGGAAAATCCCTTTTATTTCTTTTTCTGATTTTTCAGATTCAAAACTGATACAA
2487'	GGTGTTAGAGAAGGTAGACTAAAGGAAAATAATCAAATGATAGATCCACAATCTGAGGAA
1956"	GGTGTAAGGGAAGGGAAAAAGGAAAACGGGCAAGATACTGACCCTCAAGATGAATCA
2547'	GCGTTCTTAAAGAGTAAACTTTCATGGAAAATTGATGAGGAAGTTTTAGATTATTATA
2016"	ACTTTTAACGCTTCCAAACTGAGTTGGAAGATTGACGAGGAAATCTTTTCATTTTACA
2605'	AACAACTGATAAATATCAGAAA-GAGAT-ATAATA-ATTGTAAAAAGGGTAAAGGAAGTTA
2074"	AGATTTTAATAAAAATGAGAAAGGAGTTGAGCATAGCGTGTGATAGGAGAGTAAACGTCG
2662'	GGAGAGAAGGGAACTGTATTACTTTGATCATGGAAAAAATAGGAATAATTGCATCGTTTG
2134"	TGAATGGCGAAAATTGGTTGATCATCAAGG-GAAGAGAATACTTTTCACTCTACGTTTTC
2722'	ATGATATTGT-AATTAATTCTAAAATTACAGGTAATTTACTTATAGGCATAGGATTTCCG
2193"	TCTAAATCATCTATTGAAGTTAAGTACAGTGGAACTTTACTTTTGTCCTCAAATAATTCA
2781'	AAAAAATTGAAAAAAGATGAATTAAT-TAAGGTTAACAGAGGTGTTGGGGTATATCAA
2253"	TTCCCTCAGCATATTGAAGAAGGTAAATATGAGTTTGATAAGGGATTTGCTTTATATAAA
2838'	TTAGAA
7313"	CIT

F I G. 41B

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8. 306 ← GLUCOSE 13. 254 ← TREHALOSE